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Dr. J. C. Nielsen has two papers in the same volume of the same periodical. One treats of the development of *Bombylius pumilus*, a fly parasitic in the nest of a bee—*Colletes daviesiana*. He shows that when the *Bombylius* is ready to issue the pupa bores through the earth, and does not follow the channel of the nest. The second article is on the life-history of the longicorn beetle, *Oberea linearis*. The female beetle, after the manner of our *Oncideres*, cuts off the twig of hazel just beyond where it has deposited an egg. It takes two years for the young to reach maturity.

About two years ago a French woman, Marie Pellechet, offered a prize for a work on the insects injurious to books and their bindings. The committee in charge of the prize awarded it to Constant V. Houlbert, and his essay has been published.* It is the most complete work yet written on the subject. He treats of 60 different species, and gives remedies or means of prevention as far as known. There is a bibliography of 94 numbers, from which the author has drawn for most of his facts. He finds that the worst insect enemies of books are the species of *Anobium* and allied genera, known to the French as 'Vrillettes.' The remedy chiefly advised is fumigation, based on American methods.

NATHAN BANKS.

THE EIGHTH INTERNATIONAL GEOGRAPHIC CONGRESS, WASHINGTON, 1904.

THE executive committee of the Seventh International Geographic Congress, held in Berlin in 1899, having voted to convoke its next session in Washington, the National Geographic Society, as the organization responsible for the management of the sessions in the United States, will welcome the eighth congress and its friends to the national capital of the United States in September, 1904.

Geographers and promoters of geography throughout the world, especially members of geographic societies and cognate institutions of scientific character, are cordially invited to assemble in Washington, D. C., on September 8, 1904, for the first international meeting of geographers in the western hemisphere.

* 'Les insectes ennemis des livres,' pp. 269 + 38, 3 pls., 59 figs., Paris, 1903.

On the invitation of the National Geographic Society, the following societies join in welcoming the congress and undertake to co-operate toward its success, especially in so far as sessions to be held in their respective cities are concerned:

The American Geographical Society.
The Geographic Society of Baltimore.
The Geographic Society of Chicago.
The Geographical Society of California.
The Mazamas.
The Peary Arctic Club.
The Geographical Society of Philadelphia.
The Appalachian Mountain Club.
The Geographical Society of the Pacific.
The Sierra Club.
The American Alpine Club.
The Harvard Travellers Club.

The congress will convene in Washington on Thursday, September 8, in the new home of the National Geographic Society, and will hold sessions on the ninth and tenth, the latter under the auspices of the Geographic Society of Baltimore. Leaving Washington on the twelfth, the members, associates and guests of the congress will be entertained during that day by the Geographical Society of Philadelphia, and on the thirteenth, fourteenth and fifteenth by the American Geographical Society of New York, where scientific sessions will be held; on the sixteenth they will have the opportunity of visiting Niagara Falls (*en route* westward by special train), and on the seventeenth will be entertained by the Geographic Society of Chicago; and on Monday and Tuesday, September 19 and 20, they will be invited to participate in the International Congress of Arts and Science connected with the World's Fair in St. Louis. Arrangements will be made here for visiting exhibits of geographic interest. In case any considerable number of members and associates so desire, a far-west excursion will be provided from St. Louis to the City of Mexico, thence to Santa Fé, thence to the Grand Canyon of the Colorado, and on to San Francisco and the Golden Gate, where the western geographic societies will extend special hospitality, afterward returning by any preferred route through the Rocky Mountains and the interior plains to the eastern ports.

If the membership and finances warrant, the foreign delegates will be made guests of the congress from Washington to St. Louis, *viâ* Baltimore, Philadelphia, New York, Niagara Falls and Chicago. On the far-west excursion special terms will be secured, reducing the aggregate cost of transportation, with sleeping-car accommodations, and meals, materially below the customary rates. It may be necessary to limit the number of persons on the far-west excursion. It is planned also to secure special rates for transportation of foreign members from one or more European ports to New York, provided requisite information as to the convenience and pleasure of such members be obtained in time. Final information on these points will be given in the preliminary program of June, 1904.

The subjects for treatment and discussion in the congress may be classified as follows:

1. Physical geography, including geomorphology, meteorology, hydrology, etc.
2. Mathematical geography, including geodesy and geophysics.
3. Biogeography, including botany and zoology in their geographic aspects.
4. Anthropogeography, including ethnology.
5. Descriptive geography, including explorations and surveys.
6. Geographic technology, including cartography, bibliography, etc.
7. Commercial and industrial geography.
8. History of geography.
9. Geographic education.

A special opportunity will be afforded for the discussion of methods of surveying and map-making, and for the comparison of these methods as pursued in other countries with the work of the federal and state surveys maintained in this country.

Members of the congress will be entitled to participate in all sessions and excursions, and to attend all social meetings in honor of the congress; they will also (whether in attendance or not) receive the publications of the congress, including the daily program and the final *Compte Rendu*, or volume of proceedings. Membership may be acquired by members of geographic and cognate societies on payment of \$5 (25 francs, one pound, or 20 Marks) to the committee of arrangements. Persons not

members of such societies may acquire membership by a similar payment and election by the presidency. Ladies and minors accompanying members may be registered as associates on payment of \$2.50 (12½ francs 10 shillings, or 10 Marks); they shall enjoy all privileges of members except the rights of voting and of receiving publications.

Geographers and their friends desirous of attending the congress or receiving its publications are requested to signify their intention at the earliest practicable date, in order that subsequent announcements may be sent them without delay and that requisite arrangements for transportation may be effected. On receipt of subscriptions, members and associates' tickets will be mailed to the subscribers. The privileges of the congress, including the excursions and the social gatherings, can be extended only to holders of tickets.

It is earnestly hoped that the congress of 1904 may be an assemblage of geographic and cognate institutions no less than of individual geographers; and to this end a special invitation is extended to such organizations to participate in the congress through delegates on the basis of one for each one hundred members up to a maximum of ten. No charge will be made for the registration of institutions, though the delegates will be expected to subscribe as members; and in order that the list of affiliated institutions (to be issued in a later announcement) may be worthy of full confidence, the committee of arrangements reserves the right to withhold the name of any institution pending action by the presidency. The publications of the congress will be sent free to all institutions registered. It is especially desired that the geographic societies of the western hemisphere may utilize the opportunity afforded by this congress for establishing closer relations with those of the old world, and to facilitate this, Spanish will be recognized as one of the languages of the congress, with French, English, German and Italian, in accordance with previous usage; and communications before the congress may be written in any of these languages.

Institutions not strictly geographic in character, libraries, universities, academies of sci-

ence and scientific societies are especially invited to subscribe as members in order to receive the publications of the congress as issued.

Members and delegates desirous of presenting communications before the congress or wishing to propose subjects for discussion are requested to signify their wishes at the earliest practicable date, in order that the titles or subjects may be incorporated in a preliminary program to be issued in June, 1904. The time required for presenting communications should be stated, otherwise twelve minutes will be allotted. It is anticipated that not more than twenty minutes can be allotted for any communication unless the presidency decide to extend the time by reason of the general interest or importance of the subject. The presidency with the complete organization of the congress will be announced in the preliminary program of June, 1904.

All papers or abstracts designed for presentation before the congress, and all proposals and applications affecting the congress, will be submitted to a program committee, who shall decide whether the same are appropriate for incorporation in the announcements, though the decisions of this committee shall be subject to revision by the presidency after the congress convenes.

Any proposal affecting the organization of the congress or the program for the Washington session must be received in writing not later than May 1, 1904. Communications designed to be printed in connection with the congress must be received not later than June 1, and any abstracts of communications (not exceeding 300 words in length) designed for printing in the general program to be published at the beginning of the congress must be received not later than August 1, 1904. Daily programs will be issued during the sessions.

All correspondence relating to the congress and all remittances should be addressed to the Eighth International Geographic Congress, Hubbard Memorial Hall, Washington, D. C., U. S. A.

Committee of Arrangements—W. J. McGee, National Geographic Society, *chairman*; Henry G. Bryant, Geographical Society of Philadelphia;

George B. Shattuck, Geographic Society of Baltimore; A. Lawrence Rotch, Appalachian Mountain Club, Boston; Zonia Baber, Geographic Society of Chicago; George Davidson, Geographical Society of the Pacific, San Francisco; Frederick W. D'Evelyn, Geographical Society of California, San Francisco; John Muir, Sierra Club, San Francisco; Rodney L. Glisan, Mazamas, Portland; Angelo Heilprin, American Alpine Club; Herbert L. Bridgman, Peary Arctic Club; William Morris Davis, Harvard Travellers Club; J. H. McCormick, *secretary*.

Finance Committee—John Joy Edson, *chairman*, president Washington Loan and Trust Company; David T. Day, United States Geological Survey; Charles J. Bell, president American Security and Trust Company.

THE SIXTH INTERNATIONAL CONGRESS OF ZOOLOGY.

THE Fifth International Congress of Zoology held at Berlin in 1901, selected Switzerland as the place of meeting for the sixth session, and elected Professor Doctor Th. Studer president.

The congress will meet at Bern from August 14-19, 1904.

The general committee consists of the following gentlemen:

President—Dr. Th. Studer, professor at the University of Bern.

Vice-Presidents—Dr. E. Beraneck, professor at the Academy of Neuchâtel; Dr. H. Blanc, professor at the University of Lausanne; Dr. V. Fatio, Geneva; Dr. L. Kathariner, professor at the University of Fribourg; Dr. A. Lang, professor at the University and at the Polytechnicum of Zurich; Dr. E. Yung, professor at the University of Geneva; Dr. F. Zschokke, professor at the University of Basle.

General Secretary of the Standing Committee of International Congresses of Zoology—Dr. R. Blanchard, professor of the Medical Faculty of Paris.

Secretaries—Dr. M. Bedot, professor at the University of Geneva; Dr. T. Carl, assistant to the Museum of Natural History of Geneva; Dr. W. Volz, assistant to the Zoological Institute of the University of Bern.

Treasurers—Mr. E. Von Büren von Salis, banker, Bern, and Mr. A. Pictet, banker, Geneva.

Committee on Scientific Works—Besides the president and the vice-presidents of the general committee: *President*—Dr. H. Strasser, professor